

UNITED STATES PATENT AND TRADEMARK OFFICE



UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/626,663	07/22/2003	George Anthony Higgins	CES-59	1819
7:	590 02/03/2005		EXAM	INER
IRA S. DORN Suite 200	IAN		PAIK, SAN	NG YEOP
330 Roberts Str	reet		ART UNIT	PAPER NUMBER
East Hartford,	CT 06108		3742	
			DATE MAILED: 02/03/2009	ς.

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
Office Action Common to	10/626,663	HIGGINS ET AL.					
Office Action Summary	Examiner	Art Unit					
	Sang Y Paik	3742					
Th MAILING DATE of this communication appears on th cov r she t with th correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1) Responsive to communication(s) filed on	<u>.</u> .						
2a) This action is FINAL . 2b) ☑ This	action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the ments is							
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4) Claim(s) 1-26 is/are pending in the application.	•						
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-4,17 and 21</u> is/are rejected.							
7)⊠ Claim(s) <u>5-16,18-20 and 22-26</u> is/are objected to.							
8) Claim(s) are subject to restriction and/or election requirement.							
Application Papers							
9) The specification is objected to by the Examine	: .						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.					
Priority under 35 U.S.C. § 119							
12) △ Acknowledgment is made of a claim for foreign a) △ All b) □ Some * c) □ None of:	, ,	-(d) or (f).					
Certified copies of the priority documents have been received. Certified copies of the priority documents have been received in Application No							
 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage 							
application from the International Bureau	•	d III tillo I tational Glago					
* See the attached detailed Office action for a list	, ,,	d.					
	·						
Attachment(s)		٠					
1) Notice of References Cited (PTO-892)	4) Interview Summary						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	Paper No(s)/Mail Da 5) Notice of Informal P	te atent Application (PTO-152)					
Paper No(s)/Mail Date <u>7/22/03</u> .	6) Other:						

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1-4 and 21 are rejected under 35 U.S.C. 102(b) as being anticipated by Scott (US 5,977,523).

Scott shows the radiant electric heater claimed including a first and second heating zones with the respective first and second heating elements that include a conjoined ends connected to a first electrical connector of the terminal means and the other free ends of the heating elements connected to the second and third connectors wherein the third connector is positioned intermediate to the first and second electrical connectors. Scott shows the heating elements that are made of ribbons inserted in a base of electrical insulating material, and further shows that the heating elements are in the form of a double spiral where in a first strand extends from a peripheral region to a central region of the heater and a second strand extends from a central region to a peripheral region of the heater.

3. Claims 1, 2, 4 and 21 are rejected under 35 U.S.C. 102(b) as being anticipated by Higgins (US 5,892,206).

Higgins shows the heater claimed including a first and second heating zones with the respective first and second heating elements that include a conjoined ends connected to a first electrical connector of the terminal means and the other free ends of the heating elements

Application/Control Number: 10/626,663

Art Unit: 3742

connected to the second and third connectors wherein the third connector is positioned intermediate to the first and second electrical connectors. Higgins also shows the heating elements that are made of ribbons inserted in a base of electrical insulating material.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claim 17 is rejected under 35 U.S.C. 103(a) as being unpatentable over Scott (US 5,977,523) in view of Goessler et al (US 4,511,789) or Challet (US 2,330,867).

Scott shows the heater claimed except having two second heating element portions connected in parallel.

Goessler show a heater having a first inner heater (13) and two outer heaters (14, 15).

Challet also shows a heater having a multiple heaters in the respective multiple heating zones.

In view of Goessler or Challet, it would have been obvious to one of ordinary skill in the art to provide two heating elements or more heating elements in the same heating zones to provide multiple heating elements so that the respective heating zones can be heated if when one of the heaters fails or to control the heating intensity in the respective heating zones.

Allowable Subject Matter

6. Claims 5-16, 18-20 and 22-26 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Application/Control Number: 10/626,663

Art Unit: 3742

7. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Sang Y Paik whose telephone number is 571-272-4783. The

examiner can normally be reached on M-F (9:00-4:00) First Friday Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Robin Evans can be reached on 571-272-4777. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

5.2

Sang Y Paik Primary Examiner Art Unit 3742 Page 4

syp